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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/714,638	11/18/2003	Dan Forsberg	59864.00528	3251
32294 75	7590 05/09/2006		EXAMINER	
SQUIRE, SANDERS & DEMPSEY L.L.P.			NOBAHAR, ABDULHAKIM	
14TH FLOOR 8000 TOWERS CRESCENT TYSONS CORNER, VA 22182			ART UNIT	PAPER NUMBER
			2132	
			DATE MAILED: 05/09/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/714,638	FORSBERG, DAN			
Office Action Summary	Examiner	Art Unit			
	Abdulhakim Nobahar	2132			
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE				
Status					
1) Responsive to communication(s) filed on 22 Fe	ebruary 2006.	•			
2a) This action is FINAL . 2b) ⊠ This	<u> </u>				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		,			
4)⊠ Claim(s) <u>1-48</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-48</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers	•				
9)☐ The specification is objected to by the Examine	er.				
10) ☐ The drawing(s) filed on is/are: a) ☐ acc		Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119		·			
	priority under 35 H S C & 119/a)-(d) or (f)			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Burea					
* See the attached detailed Office action for a list of the certified copies not received.					
·		KAMBIZ ZAND			
Attachment(s)		PRIMARY EXAMINER			
1) Notice of References Cited (PTO-892)	4) Interview Summar				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail E	Pater Patent Application (PTO-152)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:				

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DETAILED ACTION

This communication is in response to applicant's response received on February
 22, 2006.

2. Amendments to specification are acknowledged.

Response to Arguments

Applicant's arguments filed on February 22, 2006 have been fully considered but they are not persuasive.

1. Applicant on page 16, lines 16-20 of the remarks argues "Applicant submits that combination of Zhang and Palekar simply does not teach or suggest the combination of features clearly recited in claims 1-48. Each of claims 1, 31 and 40 recites, in part, authenticating of the user equipment with another of the network entities occurs at least partially simultaneously with a phase of the establishing of the secure tunnel."

The examiner respectfully disagrees and as has been explained in the previous office action asserts that Zhang teaching contrary to the applicant's arguments reveals that while the process of authentication of a user equipment is performed the communications among the user equipment, the access point server and the authentication server are encrypted (see Fig. 2 and [0073]-[0082]). Zhang teaches that the user initiates a login session with his ISP (see [0075]). The access point server

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communicates an access request including the user ID to the authentication server (see [0076]). From this point onward until the user is authenticated all the transmitted messages (Fig.2, messages 220, 230... 270) from the authentication server to the access point server and from the access point server to the user equipment and vice versa are encrypted (see [0077]-[0082]). The communication of encrypted messages between two points corresponds to the recited establishing secure tunnel. Therefore, the authentication of the user equipment partly coincides (i.e., occurs partially simultaneously) with the establishment of a secure channel.

2. The examiner, however, in light of the above submission maintains the previous rejections.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang et al (2002/0174335 A1; hereinafter Zhang) in view of Palekar et al (US 20030226017 A1; hereinafter Palekar).

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Regarding claims 1-3, 6-8, 31-33, 36 and 40-42, Zhang discloses a method for providing authentication, authorization and accounting (AAA) transactions in a wireless network (see, for example, abstract and [0028]). Zhang discloses that a mobile terminal (MT) receives services from an Internet service provider (ISP) having an authentication server through an access point (AP) (corresponding to the recited access network) with a server (see, for example, Fig. 1 and [0073]). Zhang also discloses that a secure channel (i.e., secure tunnel) is established between the MT and the AP (see, for example, [0025], [0026], [0043] and [0045]). Zhang further discloses that in one embodiment IPSEC is used for per-packet encryption between a MT and an AP (see, for example, [0029], [0067] and [0068]). In this embodiment every packet is encrypted and authenticated. As Fig. 2 and the procedure explained at [0073] through [0082] demonstrate that all transmitted messages are encrypted (corresponding to the recited establishing of the secure tunnel) while (corresponding to the recited at least partially simultaneous) authentication of a MT is being performed. This means that authentication process starts right after a secure channel is established. However, Zhang does not expressly disclose that establishing a secure tunnel is determined based on a protocol or an authentication method.

Palekar discloses an efficient method for establishing a secure communication between two endpoints such as a wireless client and a network entity which consist of two phases of establishing a secure tunnel and authenticating the wireless client (see, for example, [0008]-[0010]; [0042]; [0053]). Palekar further discloses that for the purpose of establishing the secure tunnel between the two endpoints either the

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authentication method is negotiated (see, for example, [0063]; [0069]) or the protocol used for communication (see, for example, [0070]; [0071]; [0109]).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to implement a scheme of selecting a protocol or a method of authentication prior to establishing a secure tunnel as taught in Palekar in the method of Zhang, because it would provide for protection of the communication from a rouge interceptor (Palekar, [0007]; [0008]; [0051]).

Regarding claims 4-5, 34-35, 39, 43-44 and 48, Zhang discloses that the preferred embodiment of his invention provides a mechanism to prevent a denial of service attack by a hacker during the authentication of a user after establishing a secure channel. This is done by APs making intelligent decision while relaying user authentication certificate (corresponding to the recited a request for an identification of the user equipment). Zhang also discloses that IPSEC is used for the communication between the user and AP to ensure data integrity (corresponding to the recited a request for capability of the user equipment to support at least one data protocol) (see, for example, [0065]-[0067]).

Regarding claims 9-10 and 45, Zhang discloses that both the AP and the service provider (i.e., an ISP) each include a server in their networks (see, for example, [0055] and [0073]).

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Regarding claims 11-20, 37 and 46, Zhang discloses that the messages transmitted between a mobile user and an AP network are encrypted (corresponding to the recited the secure tunnel is established) and the communication is performed between the mobile user equipment and a server that is included in the AP network (see, for example, [0045], [0073] and Fig. 2, NASP).

Regarding claims 21-23, 26-27, 38 and 47, Zhang discloses that a mobile user connection with an AP network is a wireless connection (see, for example, [0055]).

Regarding claims 24-25, these claims are rejected as applied to the like elements of claims 4 and 5 as stated above.

Regarding claims 28-30, Zhang discloses that a roaming user accesses an ISP or a home network through a local network (i.e., an access or visited network) see, for example, [0047], [0051] and [0060]).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdulhakim Nobahar whose telephone number is 571-272-3808. The examiner can normally be reached on M-T 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KAMBIZ ZAND PRIMARY FOR WER Abdulhakim Nobahar Examiner Art Unit 2132

May 5, 2006